WHAT IS CLAIMED IS:

1. A receiver which demodulates an Orthogonal Frequency Division Multiplexing symbol transmitted by an Orthogonal Frequency Division Multiplexing method, comprising:

a delay profile generation unit which generates a delay profile regarding a preceding wave and a delayed wave which are included in a received signal;

a demodulation unit which demodulates said received signal so as to output a demodulated signal per sub-carrier;

a hard-decision unit which makes a hard decision per sub-carrier on a signal point based on said demodulated signal so as to output a hard-decision signal;

a replica generation unit which uses the hard-decision signal to generate a replica signal per sub-carrier; and

an inter-carrier interference suppression unit which adds a difference between said hard-decision signal and said replica signal to said demodulated signal so as to suppress an inter-carrier interference;

wherein said replica generation unit comprises:

a time-domain received signal generation unit which inverse-Fourier transforms said hard-decision signal so as to generate a received signal in time domain;

a signal component suppression unit which suppresses, by using a preceding symbol that is an already-demodulated OFDM symbol which

precedes a target demodulating symbol that is a target OFDM symbol to be demodulated, a signal component of said preceding symbol which is included in said delayed wave;

a modified received signal generation unit which adds, before said target demodulating symbol in said delayed wave, a portion of said received signal in said time domain; and

a replica signal generation unit which generates said replica signal by Fourier-transforming said modified received signal.

2. The receiver as claimed in claim 1, wherein said hard-decision unit is adapted to make the hard decision per sub-carrier on the signal point based on a signal in which said demodulated signal and the demodulated signal in another diversity branch are combined so as to output the hard-decision signal.

3. The receiver as claimed in claim 1, wherein said hard-decision unit comprises:

a decoding unit which error-correction decodes said demodulated signal;

a decision unit which makes the hard decision per sub-carrier on an error-correction decoded signal point; and

an output unit which error-correction decodes the hard-decision result so as to

output said hard-decision signal.

4. The receiver as claimed in claim 1, further comprising a multi-stage processing route which performs a series of processing including generation of the hard-decision signal, generation of the replica signal, and suppression of the inter-carrier interference.

5. The receiver as claimed in claim 1, further comprising a modified received signal generation unit which further adds a portion of a known signal which is received per predetermined number of OFDM symbols before the demodulated symbol of said delayed wave so as to generate the modified received signal.

6. The receiver as claimed in claim 1, wherein said received signal is modified so as to make signal contents of a portion preceding the target demodulating symbol, which is included in the delayed wave, equal to said portion of the received signal in the time domain.

7. A receiver which demodulates an Orthogonal Frequency Division Multiplexing symbol transmitted by an Orthogonal Frequency Division Multiplexing method, comprising:

a delay profile generation unit which generates a delay profile regarding a preceding wave and a delayed wave which are included in a received signal;

a signal component suppression unit which suppresses, by using a preceding symbol that is an already-demodulated OFDM symbol which precedes a target demodulating symbol that is a target OFDM symbol to be demodulated, a signal component of said preceding symbol which is included in said delayed wave;

a demodulation unit which demodulates said received signal so as to output a demodulated signal per sub-carrier;

a hard-decision unit which makes a hard decision per sub-carrier on a signal point based on said demodulated signal so as to output a hard-decision signal;

a replica generation unit which uses the hard-decision signal to generate a replica signal per sub-carrier; and

an inter-carrier interference suppression unit which adds a difference between said hard-decision signal and said replica signal to said demodulated signal so as to suppress an inter-carrier interference;

wherein said replica generation unit comprises:

a time-domain received signal generation unit which inverse-Fourier transforms said hard-decision signal so as to generate a received signal in time domain;

a modified received signal generation

unit which adds, before said target demodulating symbol in said delayed wave, a portion of said received signal in said time domain; and

a replica signal generation unit which generates said replica signal by Fourier-transforming said modified received signal.

8. The receiver as claimed in claim 7, wherein said hard-decision unit is adapted to make the hard decision per sub-carrier on the signal point based on a signal in which said demodulated signal and the demodulated signal at another diversity branch are combined so as to output the hard-decision signal.

9. The receiver as claimed in claim 7, wherein said hard-decision unit comprises:

a decoding unit which error-correction decodes said demodulated signal;

a decision unit which makes the hard decision per sub-carrier on an error-correction decoded signal point; and

an output unit which error-correction decodes the hard-decision result so as to output said hard-decision signal;

10. The receiver as claimed in claim 7, further comprising a multi-stage processing route which performs a series of processing including the generation of the hard-decision signal, the generation of the replica signal, and the suppression of the inter-carrier interference.

11. The receiver as claimed in claim 7, further comprising a modified received signal generation unit which further adds, before the demodulated symbol in said delayed wave, a portion of a known signal which is received per predetermined number of OFDM symbols.

12. The receiver as claimed in claim 7, wherein said received signal is modified so as to make signal contents of a portion preceding the target demodulating symbol, which is included in the delayed wave, to be equal to said portion of the received signal in the time domain.